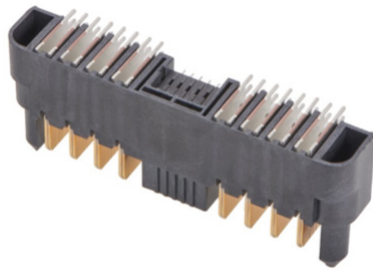


EXTreme Guardian HD Power Connectors

molex

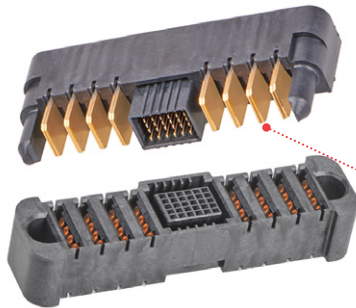
EXTreme Guardian HD Power Connectors offer configurable hybrid power/signal solutions and provide high-current density in a low-profile package for design flexibility

Features And Advantages



PCB pegs

Enable accurate through-hole positioning and secure retention



Small centerline spacing of 5.15mm

Reduces PCB footprint compared to legacy power products

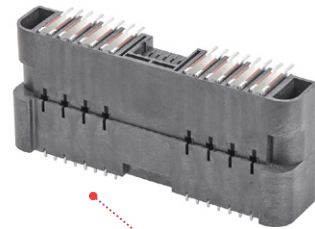
Current density up to 80.0A per blade

Provides one of the greatest current-density solutions



High temperature of 125°C power contact rating

Provides greater margin for customers' temperature designs



Through-hole solder and press-fit tails

Offers flexible manufacturing options

Gold contact plating

Provides low interface resistance



UL and CSA certification

Has accredited safety agency approval and meets safety requirements

Redundant contact design that handles up to 125V

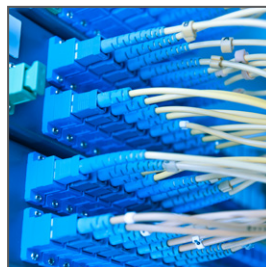
Supports AC or DC high-voltage applications with the lowest feasible voltage drop and irreversible dissipative power losses



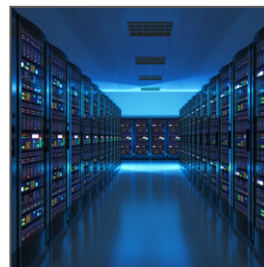
Markets and Applications

Telecommunication/Networking

- Routers
- Switches
- 1U Rack box
- Backplanes
- Power supplies
- Servers



Routers



Servers



Industrial Controls

Data/Computing

- High-end servers
- Workstations

Industrial

- Industrial Controls

EXTreme Guardian HD Power Connectors

molex

Specifications

REFERENCE INFORMATION

Packaging: Tray
UL File No.: E29179
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes
Glow Wire Capable: No

ELECTRICAL

Voltage (max.): 125V
Current (max.): 80.0A
Contact Resistance (max.): 0.40 milliohms
Dielectric Withstanding Voltage: 1500V DC
Insulation Resistance (min.): 5000 Megohms

MECHANICAL

Contact Retention to Housing (min.): 390g
Insertion Force to PCB (max.): 18.5 lbs./pin
Mating Force: 1,584g/circuit max. (RA to vert.)
Unmating Force (min.): 240g/circuit
Durability (min.): 200 cycles

PHYSICAL

Housing: LCP
Contact: Copper Alloy
Contact Area — Gold
Solder Tail Area — Tin
Underplating — Nickel
PCB Thickness (min.): 1.58mm
Operating Temperature (power ckts): -40 to +125°C

www.molex.com/link/extremeguardian.html

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners.